

What is claimed is:

1. A configurable SATPS receiver adapted to be utilized in at least one of a plurality of particular SATPS receiver applications, the configurable SATPS receiver including a plurality of input paths and a plurality of possible
5 outputs, comprising:

means for generating selected ones of the plurality of possible outputs, wherein the selected ones of the plurality of possible outputs comprise outputs that are utilized by at least one particular SATPS receiver application.

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2. The configurable SATPS receiver of Claim 1, further comprising a plurality of input paths responsive to a plurality of possible RF inputs, wherein the means for generating comprises:

a radio frequency (RF) unit responsive to at least one RF input, wherein
15 the radio frequency unit generates a plurality of intermediate frequency (IF) outputs based on the RF inputs; and

a baseband unit responsive to selected ones of the intermediate frequency (IF) outputs.

20 3. The configurable SATPS receiver of Claim 2, wherein the baseband unit generates selected ones of the plurality of possible outputs utilized by the particular SATPS receiver application.

4. The configurable SATPS receiver of Claim 3, wherein baseband
25 unit generates selected ones of the plurality of possible outputs based on the plurality of inputs.

5. The configurable SATPS receiver of Claim 2, wherein the baseband unit further comprises input paths for signals other than the RF
30 inputs from the RF unit, and wherein at least one of the plurality of possible outputs is selected from the plurality of possible outputs and other inputs, based in part on use of signals other than the RF inputs.

6. The configurable SATPS receiver of Claim 5, wherein the signals comprise a plurality of assistance data-type inputs.

5 7. The configurable SATPS receiver of Claim 6, wherein the assistance data-type inputs are selected from at least one of a group comprising: a coarse position input, a navigation data input, a doppler input, a time input, a frequency reference input, a universal time code (UTC) correction input, a ionospheric correction input, an ephemeris input, an almanac input,
10 and/or a satellite ID input.

8. The configurable SATPS receiver of Claim 7, wherein the baseband unit extracts GPS data from the selected ones of the intermediate frequency (IF) outputs and generates an output relating to the position of the
15 SATPS receiver.

9. The configurable SATPS receiver of Claim 2, wherein the plurality of RF inputs are selected from at least one of a group comprising: a frequency reference input, an automatic gain control input, a blanking input,
20 and a jammer-to-noise (J/N) switch.

10. The configurable SATPS receiver of Claim 8, wherein the intermediate frequency (IF) outputs are selected from at least one of a group comprising: in-phase (I) output, quadrature-phase (Q) output, I^2+Q^2 output, oscillator output, Intermediate Frequency (IF) output, an automatic gain
25 control output, and other signal quality indicators.

11. The configurable SATPS receiver of Claim 2, wherein the intermediate frequency (IF) outputs are fed directly into the baseband unit for
30 processing.

12. The configurable SATPS receiver of Claim 2, wherein the

intermediate frequency (IF) outputs are sent directly to a remote location.

13. The configurable SATPS receiver of Claim 2, wherein the intermediate frequency (IF) outputs are directly utilized for parallel processing
5 by a remote location and the basedband unit.

14. The configurable SATPS receiver of Claim 1, wherein the plurality of possible outputs comprise a plurality of programmable outputs that can be enabled based on the particular receiver application.
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15. The configurable SATPS receiver of Claim 14, wherein the particular receiver application is determined based on current operating environment and/or user preferences.

16. The configurable SATPS receiver of Claim 2, wherein the plurality of possible outputs are selected from at least one of a group comprising: a doppler output, a pre-processed information (IF) output, a delta pseudorange output, an integrated carrier phase output, a pseudorange output, a time output, a velocity output, and a position output.
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17. The configurable SATPS receiver of Claim 8, wherein the input paths comprise:
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at least one antenna adapted to receive RF inputs and supply the RF inputs to the RF unit.

18. The configurable SATPS receiver of Claim 8, wherein the at least one antenna is a first antenna, and wherein the input paths further comprise:
25 a second antenna adapted to selectively receive other RF signals based on the particular application.

19. The configurable SATPS receiver of Claim 18, wherein other RF signals are selected from at least one of a group comprising: cellular system
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signals, local area network signals, Bluetooth signals, SMS signals, Wide Area Augmentation System (WAAS) signals, and beacon signals.

20. The configurable SATPS receiver of Claim 1, wherein the
- 5 particular SATPS receiver applications include at least one of a cellular telephone operating environment, an automobile operating environment, and a Personal Data Assistant (PDA) operating environment.